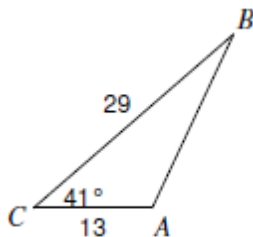


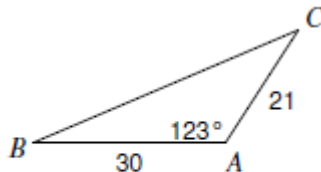
## The Law of Cosines

Date \_\_\_\_\_ Period \_\_\_\_\_

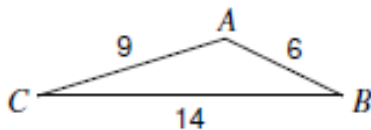
- 1) Find AB



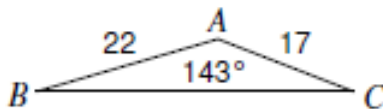
- 2) Find BC



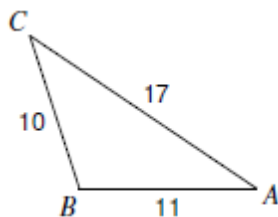
- 3) Find
- $m\angle A$



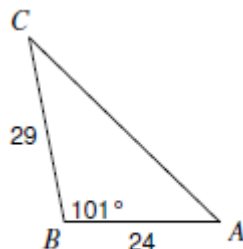
- 4) Find
- $m\angle B$



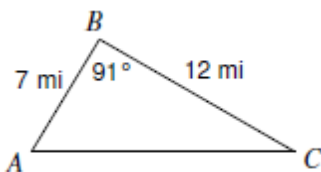
- 5) Find
- $m\angle A$



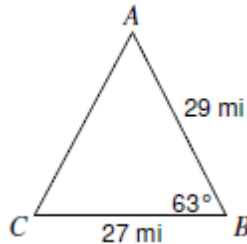
- 6) Find
- $m\angle C$



- 7) Solve the triangle:



- 8) Solve the triangle:



- 9) Solve the triangle:

In  $\triangle ABC$ ,  $a = 14$  cm,  $b = 9$  cm,  $c = 6$  cm

- 10) Solve the triangle:

In  $\triangle XYZ$ ,  $m\angle X = 138^\circ$ ,  $y = 15$  in,  $z = 25$  in